

IN THE CLAIMS:

Please amend the claims as follows:

Claims 1-29 (canceled).

Claim 30 (new): Shrink film for wrapping foodstuffs, comprising:

a plurality of overlaid layers constituted by non-crosslinked thermoplastic polymers of different natures, wherein the material that constitutes one of the outer layers melts at a lower temperature than the materials that constitute the other layers;

three layers constituted by polymers having a Young's modulus substantially higher than that of the polymers which constitute the other layers;

in which:

one of said three layers with a higher Young's modulus is one of the two outer layers of the film, whereas the other two layers with a higher Young's modulus are inner layers of the film;

each of said three layers with a higher Young's modulus is separated from the other layers with a higher Young's modulus by at least one layer with a lower Young's modulus; and said three layers with a higher Young's modulus are highly impermeable to gases, especially oxygen and aqueous steam;

characterised in that said two layers with a higher Young's modulus which are situated inside the film are located on the opposite side, in relation to the neutral plane of the film, from the layer with a higher Young's modulus which lies on the outside of the film.

Claim 31 (new): Film as claimed in claim 30, characterised in that the sequence of all the layers constituting said film, and their thickness, from which the distance of each of

said layers from the neutral plane of said film derives, are determined in such a way that the sum of the moments exerted by said layers in relation to said neutral plane after the process of biaxial orientation is substantially nil, wherein:

the moment exerted by a single layer in relation to the neutral plane is equal to the product of the membrane force exerted by said layer and the distance of the average plane of said layer from the neutral plane of the film;

the membrane force exerted by said layer is equal to the product of the Young's modulus of the material which constitutes said layer, the thickness of said layer and the prevented shrinkage, expressed as a percentage.

Claim 32 (new): Film as claimed in 30, characterised in that it comprises seven layers (A, B, C, D, E, F and G), starting from the layer that in use is in contact with the product, composed as follows:

layer A, thickness 10 to 30%, welding layer - constitutes the internal part of the wrapping, and can be constituted by ionomers containing zinc or sodium, a low-density polyethylene or linear low-density polyethylene (LDPE/LLDPE), or an ethylene or octene plastomer;

layer B, thickness 5 to 15%, first adhesive layer - consists of an adhesive polymer selected from among terionomers, or ethylene modified with maleic anhydride copolymers, or an EVA/ethylene methacrylic acid copolymer;

layer C, thickness 10 to 20%, first barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among PA 6, PA 6/66, amorphous or aliphatic PA or a mixture thereof, possibly with the addition of terionomers;

layer D, thickness 10 to 20%, second adhesive layer - consists of an adhesive polymer selected from among terionomers, or ethylene modified with maleic anhydride copolymers, or of an EVA/ethylene methacrylic acid copolymer, and may be equal to or different from layer B;

layer E, thickness 10 to 20%, second barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among PA 6, PA 6/66, amorphous or aliphatic PA or a mixture thereof, possibly with the addition of terionomers, and may be equal to or different from layer C, alternatively, PVA or PGA can be used;

layer F, thickness 5 to 15%, third adhesive layer - consists of an adhesive polymer selected from among terionomers, or ethylene modified with maleic anhydride copolymers, or of an EVA/ethylene methacrylic acid copolymer, and may be equal to or different from layers B and D;

layer G, thickness 5 to 25%, outer layer and fourth barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among PA 6 or PA 6/66.

Claim 33 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 10 to 30%, welding layer - constitutes the inner part of the wrapping, and is constituted by ionomers containing zinc or sodium;

said layer B, thickness 5 to 10%, first adhesive layer - consists of a terionomer;

said layer C, thickness 10 to 20%, first barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among polyamides PA6/66;

said layer D, thickness 10 to 20%, second adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer E, thickness 10 to 20%, second barrier layer (mainly to aqueous steam)
- consists of a polyamide polymer PA 6/66;

said layer F, thickness 5 to 15%, third adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer G, thickness 5 to 25%, outer layer and third barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 34 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 10 to 30%, welding layer - constitutes the inner part of the wrapping, and is constituted by ionomers containing zinc or sodium;

said layer B, thickness 5 to 15%, first adhesive layer - consists of a terionomer;

said layer C, thickness 10 to 20%, first barrier layer (mainly to aqueous steam) - consists of a mixture of polyamides PA 6/66 and aliphatic PA;

said layer D, thickness 10 to 20%, second adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer E, thickness 10 to 20%, second barrier layer (mainly to aqueous steam)
- consists of a polyamide polymer PA 6/66;

said layer F, thickness 5 to 15%, third adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer G, thickness 5 to 25%, outer layer and third barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 35 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 10 to 30%, welding layer - constitutes the inner part of the wrapping, and is constituted by ionomers containing zinc or sodium;

said layer B, thickness 5 to 15%, first adhesive layer - consists of a terionomer;

said layer C, thickness 10 to 20%, first barrier layer (mainly to aqueous steam) - consists of a mixture of polyamides PA6/66 + amorphous PA blended with a terionomer;

said layer D, thickness 10 to 20%, second adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer E, thickness 10 to 20%, second barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66;

said layer F, thickness 5 to 15%, third adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer G, thickness 5 to 25%, outer layer and third barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 36 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 10 to 30%, welding layer - constitutes the inner part of the wrapping, and is constituted by ionomers containing zinc or sodium;

said layer B, thickness 5 to 15%, first adhesive layer - consists of a terionomer;

said layer C, thickness 10 to 20%, first barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among polyamides PA6/66;

said layer D, thickness 10 to 20%, second adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer E, thickness 10 to 20%, second barrier layer (mainly to aqueous steam)

- consists of a mixture of polyamides PA 6/66 + amorphous PA;

said layer F, thickness 5 to 15%, third adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer G, thickness 5 to 25%, outer layer and third barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 37 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 10 to 30%, welding layer - constitutes the inner part of the wrapping, and is constituted by ionomers containing zinc or sodium;

said layer B, thickness 5 to 15%, first adhesive layer-consists of a terionomer;

said layer C, thickness 10 to 20%, first barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among polyamides PA 6/66;

said layer D, thickness 10 to 20%, second adhesive layer-consists of an adhesive polymer selected from among the terionomers;

said layer E, thickness 10 to 20%, second barrier layer (mainly to aqueous steam) - consists of a mixture of polyamides PA 6/66 + amorphous PA blended with a terionomer;

said layer F, thickness 5 to 15%, third adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer G, thickness 5 to 25%, outer layer and third barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 38 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 10 to 30%, welding layer - constitutes the inner part of the

wrapping, and is constituted by ionomers containing zinc or sodium;

said layer B, thickness 5 to 15%, first adhesive layer - consists of a terionomer;

said layer C, thickness 10 to 20%, first barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among polyamides PA6/66;

said layer D, thickness 10 to 20%, second adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer E, thickness 10 to 20%, second barrier layer (mainly to aqueous steam) - consists of an aliphatic PA polymer;

said layer F, thickness 5 to 15%, third adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer G, thickness 5 to 25%, outer layer and third barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 39 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 10 to 30%, welding layer - constitutes the inner part of the wrapping, and is constituted by an ethylene or octene plastomer;

said layer B, thickness 5 to 15%, first adhesive layer-consists of LLDPE modified with maleic anhydride;

said layer C, thickness 10 to 20%, first barrier layer (mainly to aqueous steam) - consists of a mixture of polyamides PA 6/66 + amorphous PA;

said layer D, thickness 10 to 20%, second adhesive layer-consists of LLDPE modified with maleic anhydride;

said layer E, thickness 10 to 20%, second barrier layer (mainly to aqueous steam)

- consists of a polyamide polymer PA 6/66;

said layer F, thickness 5 to 15%, third adhesive layer-consists of LLDPE modified with maleic anhydride;

said layer G, thickness 5 to 25%, outer layer and third barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 40 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 10 to 30%, welding layer - constitutes the inner part of the wrapping, and is constituted by LLDPE;

said layer B, thickness 5 to 15%, first adhesive layer - consists of LLDPE modified with maleic anhydride;

said layer C, thickness 10 to 20%, first barrier layer (mainly to aqueous steam) - consists of a mixture of polyamides PA 6/66 + amorphous PA;

said layer D, thickness 10 to 20%, second adhesive layer - consists of LLDPE modified with maleic anhydride;

said layer E, thickness 10 to 20%, second barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66;

said layer F, thickness 5 to 15%, third adhesive layer - consists of LLDPE modified with maleic anhydride;

said layer G, thickness 5 to 25%, outer layer and third barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 41 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 10 to 30%, welding layer - constitutes the inner part of the wrapping, and is constituted by LDPE;

said layer B, thickness 5 to 15%, first adhesive layer-consists of an EVA/ethylene methacrylic acid copolymer;

said layer C, thickness 10 to 20%, first barrier layer (mainly to aqueous steam) - consists of a mixture of polyamides PA 6/66 + PA 6;

said layer D, thickness 10 to 20%, second adhesive layer - consists of an EVA/ethylene methacrylic acid copolymer;

said layer E, thickness 10 to 20%, second barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66;

said layer F, thickness 5 to 15%, third adhesive layer - consists of an EVA/ethylene methacrylic acid copolymer;

said layer G, thickness 5 to 25%, outer layer and third barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 42 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 10 to 30%, welding layer - constitutes the inner part of the wrapping, and is constituted by ionomers containing zinc or sodium;

said layer B, thickness 5 to 15%, first adhesive layer - consists of a terionomer;

said layer C, thickness 10 to 20%, first barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among polyamides PA6/66;

said layer D, thickness 10 to 20%, second adhesive layer-consists of an EVA/ethylene methacrylic acid copolymer;

said layer E, thickness 10 to 20%, second barrier layer (mainly to aqueous steam)
- consists of PVA (polyvinyl alcohol);

said layer F, thickness 5 to 15%, third adhesive layer-consists of an
EVA/ethylene methacrylic acid copolymer;

said layer G, thickness 5 to 25%, outer layer and third barrier layer (mainly to
aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 43 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 10 to 30%, welding layer - constitutes the inner part of the
wrapping, and is constituted by ionomers containing zinc or sodium;

said layer B, thickness 5 to 15%, first adhesive layer - consists of a terionomer;

said layer C, thickness 10 to 20%, first barrier layer (mainly to aqueous steam) -
consists of a polyamide polymer selected from among polyamides PA6/66;

said layer D, thickness 10 to 20%, second adhesive layer - consists of an
EVA/ethylene methacrylic acid copolymer;

said layer E, thickness 10 to 20%, second barrier layer (mainly to aqueous steam)
- consists of PGA (polyglycolic acid);

said layer F, thickness 5 to 15%, third adhesive layer - consists of an
EVA/ethylene methacrylic acid copolymer;

said layer G, thickness 5 to 25%, outer layer and third barrier layer (mainly to
aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 44 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 20%, welding layer - constitutes the inner part of the wrapping, and can be constituted by ionomers containing zinc or sodium, a low-density polyethylene or linear low-density polyethylene (LDPE/LLDPE), or an ethylene or octene plastomer;

said layer B, thickness 10%, first adhesive layer - consists of an adhesive polymer selected from among ethylene copolymers or terionomers modified with maleic anhydride, or of an EVA/ethylene methacrylic acid copolymer;

said layer C, thickness 15%, first barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among PA 6, PA 6/66, amorphous or aliphatic PA or a mixture thereof, possibly with the addition of terionomers;

said layer D, thickness 15%, second adhesive layer - consists of an adhesive polymer selected from among terionomers, or ethylene modified with maleic anhydride copolymers, or of an EVA/ethylene methacrylic acid copolymer, and may be equal to or different from layer B;

said layer E, thickness 15%, second barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among PA 6, PA6/66, amorphous or aliphatic PA or a mixture thereof, possibly with the addition of terionomers, and may be equal to or different from layer C; alternatively, PVA (polyvinyl alcohol) or PGA (polyglycolic acid) can be used;

said layer F, thickness 10%, third adhesive layer - consists of an adhesive polymer selected from among terionomers, or ethylene modified with maleic anhydride copolymers, or of an EVA/ethylene methacrylic acid copolymer, and may be equal to or different from layers B and D;

said layer G, thickness 15%, outer layer and fourth barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among PA 6 and PA 6/66.

Claim 45 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 20%, welding layer - constitutes the inner part of the wrapping, and is constituted by ionomers containing zinc or sodium;

said layer B, thickness 10%, first adhesive layer - consists of a terionomer;

said layer C, thickness 15%, first barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among polyamides PA6/66;

said layer D, thickness 15%, second adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer E, thickness 15%, second barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66;

said layer F, thickness 10%, third adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer G, thickness 15%, outer layer and third barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 46 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 20%, welding layer - constitutes the inner part of the wrapping, and is constituted by ionomers containing zinc or sodium;

said layer B, thickness 10%, first adhesive layer - consists of a terionomer;

said layer C, thickness 15%, first barrier layer (mainly to aqueous steam) - consists

of a mixture of polyamides PA 6/66 + aliphatic PA;

said layer D, thickness 15%, second adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer E, thickness 15%, second barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66;

said layer F, thickness 10%, third adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer G, thickness 15%, outer layer and third barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66.

Claim 47 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 20%, welding layer - constitutes the inner part of the wrapping, and is constituted by ionomers containing zinc or sodium;

said layer B, thickness 10%, first adhesive layer - consists of a terionomer;

said layer C, thickness 15%, first barrier layer (mainly to aqueous steam) - consists of a mixture of polyamides PA 6/66 + amorphous PA blended with a terionomer;

said layer D, thickness 15%, second adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer E, thickness 15%, second barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66;

said layer F, thickness 10%, third adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer G, thickness 15%, outer layer and third barrier layer (mainly to aqueous

steam) - consists of a polyamide polymer PA 6/66.

Claim 48 (new): Film as claimed in claim 32, characterised in that:

said layer A, thickness 20%, welding layer - constitutes the inner part of the wrapping, and is constituted by ionomers containing zinc or sodium;

said layer B, thickness 10%, first adhesive layer-consists of a terionomer;

said layer C, thickness 15%, first barrier layer (mainly to aqueous steam) - consists of a polyamide polymer selected from among polyamides PA6/66;

said layer D, thickness 15%, second adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer E, thickness 15%, second barrier layer (mainly to aqueous steam) - consists of a mixture of polyamides PA6/66 + amorphous PA;

said layer F, thickness 10%, third adhesive layer - consists of an adhesive polymer selected from among the terionomers;

said layer G, thickness 15%, outer layer and third barrier layer (mainly to aqueous steam) - consists of a polyamide polymer PA 6/66.